IT Service Management with System Center Service Manager

Varighed: 5 Days      Kursus Kode: M10965

Beskrivelse:
This five day course will provide students with the key knowledge required to deploy and configure System Center 2012 R2 Service Manager. Using hands-on labs, students will learn the following:
- Where Service Manager sits within the System Center 2012 R2 product.
- What business and technical needs Service Manager is designed to meet.
- How Service Manager aligns itself to ITIL and MOF.
- How to architect and implement a System Center 2012 R2 Service Manager deployment.
- How to upgrade an existing Service Manager 2010 environment to System Center 2012.
- How to customize System Center 2012 R2 Service Manager to be in line with corporate standards.
- How to configure Incident and Problem Management.
- How to configure Activity, Change and Release Management.
- How to configure Service Requests.
- How to configure Service Level Management.
- How to customize the Self-Service Portal.
- How to configure Reporting and Analysis.
- How to troubleshoot Service Manager and perform disaster recovery.
- How to create customized Service Manager forms.

Målgruppe:
This course is intended for cloud and datacenter administrators who are new to System Center 2012 SP1 Service Manager and are responsible for deploying, configuring and operating it in their cloud or datacenter. This course is also intended for Cloud and datacenter administrators who are already familiar with Service Manager and want to upgrade their skills to include the new features found in System Center 2012 SP1 Service Manager.

Agenda:

- **Module 1: Service Management Overview**
  - Effective IT Service Management includes process-driven methodologies that cover a broad spectrum of IT functions. This can include change management, incident and problem management and release management. Although no organization typically adopts any single IT Service Management methodology most organizations, depending on their size and nature of business will adopt a combination of processes and functions from many different IT Service Management frameworks such as ITIL (IT Infrastructure Library) or MOF (Microsoft Operations Framework).
  - In this module you will learn many of the ITIL and MOF best practices and procedures in delivering effective IT Service Management and how System Center 2012 R2 Service Manager can be used to implement them in your organization.

- **Lessons**
  - Business Drivers Behind IT Service Management
  - Introduction to Microsoft System Center 2012 R2
  - System Center 2012 R2 Service Manager Overview and Key Features
  - Adopting ITIL/MOF Best Practices with Service Manager

- **Module 7: Managing Changes and Releases**
  - When changes need to occur in the IT environment it is important that they are managed appropriately. The goal of Change Management as described by ITIL is to “ensure that standardized methods and procedures are used for efficient and prompt handling of all changes, in order to minimize the impact of change-related incidents upon service quality, and consequently to improve the day-to-day operations of the organization”. In this module you will learn how Service Manager manages changes in the IT environment by using Change Requests. This includes creating and managing Activities such as Review Activities that are used to approve or reject changes. You will also learn how Release Records are used to group, schedule and develop approved changes.

- **Lessons**
  - Managing Change Requests
  - Managing Release Records
  - Lab: Configuring Change and Release Management
  - Create a Change Request with Review Activities
  - Approve the Change Request
Module 2: Installing System Center 2012 R2 Service Manager

Before installing System Center 2012 R2 Service Manager in any environment there are many factors that you need to consider. Firstly, you need to understand your current IT environment. This includes how many users and computers are in the environment, how many Incidents and Change Requests are raised on a weekly/monthly basis and how many Analysts will be using the Service Manager Console. This information is critical in planning a successful deployment of Service Manager as it will be used to determine the hardware required for the various Service Manager components. Service Manager relies on Microsoft SQL Server to stores its operational and data warehouse databases so careful consideration should also be given to the configuration of SQL Server when deploying Service Manager. This includes the disk subsystem, memory and database collision. In this module you will learn the key component and architecture of Service Manager including the hardware and software requirements. You will also learn the security requirements and considerations that should be taken into account before, during and after deploying Service Manager. You will learn how to install the various components of Service Manager including where components can and cannot be shared on the same computer. Finally you will learn how to upgrade an existing System Center Service Manager 2010 environment to System Center 2012 Service Manager.

Lessons

System Center 2012 R2 Service Manager Architecture and Core Components
Hardware, Software and Security Requirements
Planning and Sizing a System Center 2012 R2 Service Manager Deployment
Installing System Center 2012 R2 Service Manager
Installing and Configuring the Service Manager Self-Service Portal
Overview of the Service Manager Console
Upgrading to System Center 2012 Service Manager
Lab : Installing System Center 2012 R2 Service Manager
Install the Service Manager Management Group
Install the Data Warehouse Management Group and Register the Service Manager Management Group with the Data Warehouse Management Group
Install and configure the Service Manager Self-Service Portal and confirm a successful installation
Lab : Upgrading to System Center 2012 Service Manager

Module 8: Configuring and Managing the Service Catalog

Service Request fulfillment is a key function in the Service Management framework. By providing Service Request fulfillment you can align your IT and business strategy and ensure that you deliver business value with IT services. Service Manager provides Service Request fulfillment by using best practice methodologies from both Microsoft Operations Framework (MOF) 4.0 and Information Technology Infrastructure Library (ITIL) V3.

In this module you will learn all aspects of Service Request fulfillment within Service Manager with the exception of Service Level Management which is covered in Module 10.

Lessons

The Service Catalog, Request Offerings and Service Offerings
Managing Service Requests and Catalog Groups
The Self-Service Portal
Lab : Configuring Service Requests
Create the Contoso Request Offering
Test the Contoso Request Offering
Create the StockTrader Request Offerings
Test the StockTrader Request Offerings

Module 9: Automating Business Processes with Orchestrator

When Service Manager and Orchestrator have been integrated the ability to automate business processes in Service Manager is made available. Orchestrator can be used to create, update and manage items in Service Manager and Service Manager can be used to initiate Orchestrator Runbooks. A typical example of automating a business process with Orchestrator would be using it to automatically create a Problem Record in Service Manager when a number of related Incidents have been created. Orchestrator would monitor the Incidents in Service Manager and when a defined number of related Incidents have been created it would create a Problem Record and automatically associate the related Incidents to it. In this module you will learn how Orchestrator and Service Manager can be used to automate business processes.

Lessons

Configuring Integration between Orchestrator and Service Manager
Module 3: Key Concepts and Features

Before you start to configure Service Manager to meet your requirements it is important that you understand some of the key concepts and features found in the Service Manager Console. This includes Management Packs that are used to store Service Manager Items such as queues, views and groups. You should understand the concept of work items and configuration items including how they can be created and modified in Service Manager. In this lesson you will learn many of the key features and concepts that will help you understand how to configure important functions in Service Manager.

Lessons

Overview of Management Packs
Overview of the Service Manager CMDB
Managing Activities
Managing Workflows
Managing Templates
Security and User Roles

Lab : Configuring Service Manager for StockTrader and DinnerNow

Create a StockTrader and DinnerNow Management Pack
Create the DinnerNow Configuration Items

After completing this module, students will be able to:

Describe Management Packs.
Describe the Service Manager CMDB.
Manage Activities.
Manage Workflows.
Manage Templates.
Manage Security and User Roles in Service Manager.

Module 4: Configuring Service Manager For Your Organization

Configure Runbooks in Orchestrator
Configure Runbook Automation Activity Templates in Service Manager
Creating a Request Offering in Service Manager to Initiate a Runbook in Orchestrator
Lab : Automating the Contoso and StockTrader Service Offerings
Automating the Request Offering for Contoso
Automating the Request Offerings for StockTrader
Lab : Automating Business Processes with Orchestrator
Creating a Change Request to approve the restart of the application server
Configure a Runbook Automation Activity
Approving the Change Request and confirming the application server is restarted

Module 10: Configuring Service Level Management

As defined by ITIL the mission statement for Service Level Management is “Plan, coordinate, negotiate, report and manage the quality of IT services at acceptable cost”. To provide effective Service Level Management a number of key activities must be undertaken. In addition to this, an ongoing activity to improve IT services is maintained. This not only helps ensure that service levels are being met but also ensures the business or businesses are satisfied with the level of service they are receiving.

In this module you will learn how Service Level Management is implemented in Service Manager.

Lessons

Configuring Service Level Management
Viewing SLA information in Service Manager
Lab : Configuring Service Level Management
Create a Service Level Objective for an Incident SLA
Create a Service Level Objective for a Service Request SLA
Configure SLA Notifications

After completing this module, students will be able to:

Configure Service Level Management.
View SLA information in Service Manager.
Module 11: Using Reports and Analyzing Data in Service Manager
Over time there may be the need to troubleshoot your Service Manager including how to manage and maintain the data components such as the Service Manager databases. It is important you understand how these data warehouse jobs operate in the Service Manager Data Warehouse. To facilitate this, a number of Data Warehouse Jobs are used to extract, transform and load the data into the Data Warehouse so that it can be used in reports. It is important you understand how these data warehouse jobs operate including how to troubleshoot jobs that have failed. Similarly, there are a number of OLAP Cubes that can be used to perform advanced analytics on data that has been collected in the data warehouse. It is important you understand how these cubes are processed including how to analyze cube data in Microsoft Excel and Microsoft SharePoint. In this module you will learn how to run reports in Service Manager including how to manage and maintain the data warehouse jobs and cubes on which reports rely on. Additionally you will learn how to perform advanced analytics on cube data by using Excel and SharePoint.

### Lessons

- Troubleshooting failed Data Warehouse Jobs
- Data Warehouse Cubes

#### Lab : Configuring Reports and Analyzing Service Manager Data

- Configuring, Running and Exporting Reports
- Viewing the Status of Data Warehouse Jobs
- Managing the Analysis Library
- Analyzing Cube Data

After completing this module, students will be able to:

- Run reports in Service Manager.
- Troubleshoot Data Warehouse Jobs.
- Describe the Data Warehouse Cubes in Service Manager.

### Module 12: Advanced Troubleshooting and Disaster Recovery

Over time there may be the need to troubleshoot your Service Manager environment and perform disaster recovery tasks such as restoring the Service Manager databases or recovering from a failed Management Server. In these scenarios it is important that you understand what tools are available to troubleshoot Service Manager and what actions you should take to recover from a disaster. As an example consider the following scenario. Change Managers have reported that when they attempt to approve a Change Request the Approval Activity status does not change to Completed state. Instead the status stays in an In Progress state. In this scenario you should review the log files for the relevant activity. In this module you will learn some of the advanced troubleshooting techniques that are used to resolve problems in Service Manager. You will also learn how to perform disaster recovery for failed Service Manager components such as the Service Manager databases.

### Lessons

- Configuring, Running and Exporting Reports
- Troubleshooting failed Data Warehouse Jobs
- Data Warehouse Cubes

#### Lab : Configuring Reports and Analyzing Service Manager Data

- Configuring, Running and Exporting Reports
- Managing the Analysis Library
- Analyzing Cube Data

After completing this module, students will be able to:

- Run reports in Service Manager.
- Troubleshoot Data Warehouse Jobs.
- Describe the Data Warehouse Cubes in Service Manager.
After completing this module, students will be able to:

- Configure the Active Directory and System Center Connectors in Service Manager.
- Install and configure the Exchange Connector in Service Manager.

Module 6: Managing Incidents and Problems

Incident and Problem management are two key functions that form part of any Service Management solution. Not only should you understand how Incidents and Problems are configured and managed, you also need to understand what constitutes an Incident or a Problem. In this module you will learn how to differentiate an issue that occurs in the IT environment between an Incident and a Problem. You will also learn how to configure Incidents and Problems which includes creating Templates that can be used to auto-populate Incident forms. Finally, you will learn how Service Manager Queues and Views can be created to filter Incidents and Problems. These can then be used when configuring User Roles to restrict what Incidents and Problems analysts can view and work on in the Service Manager Console.

Lessons

- The Definition of an Incident and a Problem
- Managing Incidents
- Managing Problems
- Using Queues and Views with Incidents and Problems

Lab: Configuring Incident and Problem Management

Create an Incident using the Service Manager Console

Create an Incident Template

Using Incident Templates

Configuring an Incident Event Workflow to automatically update an Incident

Group Incidents and create a Problem Record

Create Queues and Views to filter Incidents

After completing this module, students will be able to:

- Describe the definition of an Incident and a Problem
- Manage Incidents
- Manage Problems

Module 13: Creating Custom Forms and Items in Service Manager

In most cases the out-of-box forms that are included with Service Manager will be sufficient for your day-to-day IT Service Management requirements. However, in some cases you may find the need to create a custom form that is used to collect information that is not currently possible with the existing forms. As an example of this, you may have an in-house line of business application that you want to manage with Service Manager. There may be a number of components in the application that you want to represent in a form when creating an Incident. In this scenario you can use the Service Manager Authoring Console to create a custom form based on the default Incident form and then customize it with controls such as a label or text box. You can then save this customized form in a new Management Pack for use in Service Manager. In this final module, you will learn how to use the Service Manager Authoring Console to create customized forms in Service Manager.

Lessons

- Key Concepts in creating customized forms
- Creating a Customized form using the Authoring Console

Lab: Creating Customized forms using the Authoring Console

Creating a Customized Incident Form

Creating a new Configuration Item and Form to record laptop computer information

After completing this module, students will be able to:

- Describe the key concepts in creating customized forms in Service Manager
- Create a customized form using the Authoring Console

Forudsætninger:

Before attending this course, students must have:

- Working knowledge of SQL Server 2008 R2 and SQL Server 2012.
Indhold:

After completing this course, students will be able to:

- Describe the key features of System Center 2012 R2.
- Describe System Center 2012 R2 Service Manager.
- Describe the key methodologies adopted using ITIL and MOF.
- Describe how System Center 2012 R2 Service Manager adopts best practices using ITIL and MOF.
- Describe the System Center 2012 R2 Service Manager Architecture and Core Components.
- Describe the Hardware and Software Requirements of System Center 2012 R2 Service Manager.
- Describe the Security Requirements of System Center 2012 R2 Service Manager.
- Install System Center 2012 R2 Service Manager.
- Upgrade Service Manager 2010 to System Center 2012 Service Manager.
- Describe System Center 2012 R2 Service Manager Base Configuration.
- Configure Notifications.
- Integrate System Center 2012 R2 Service Manager using Connectors.
- Configure the Exchange Connector.
- Configure Business Services.
- Describe the definition of an Incident and a Problem.
- Manage Incidents.
- Manage Problems.
- Use Queues and Views with Incidents and Problems.
- Configure Activity Management.
- Configure Change Management.
- Configure Release Management.
- Describe the Service Catalog, Request Offerings and Service Offerings.
- Manage Service Requests and Catalog Groups.
- Describe the Self-Service Portal.
- Configure Service Level Management.
- View SLA information in Service Manager.
- Describe the components of the Self-Service Portal.
- Customize the Self-Service Portal.
- Run reports in Service Manager.
- Configure and run Data Warehouse Jobs.
- Troubleshoot Data Warehouse Jobs.
- Describe the Data Warehouse Cubes in Service Manager.
- Perform advanced troubleshooting in Service Manager.

Perform disaster recovery in Service Manager.
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